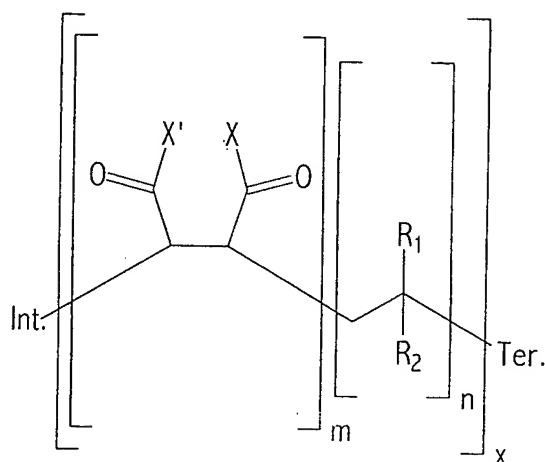


Amendment to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (Currently Amended) One or more copolymers having the general formula:



wherein:

copolymers are liquid at ambient temperature;

X and X' comprise one or more of —OH; —O—hydrocarbyl; —NH₂; —Cl; —Br; —OM⁺, wherein M⁺ comprises one equivalent of one or more metals, ammoniums and amine cations; and X and X' taken together as —O—;

n comprises a whole integer from 1 to 3;

~~R₁ comprises methyl;~~

~~R₂ comprises polyisobutyl having less than 32 carbon atoms~~ one of R₁ and R₂ comprises methyl and the other of R₁ and R₂ comprises polyisobutyl having about 5 to about 25 carbon atoms;

m comprises a whole integer of from 1 to 3;

x comprises a whole integer of from 1 to 20;

Int. comprises at least one initiating radical; and

Ter. Comprises at least one terminating group.

Claims 2-3 (Cancelled)

Claim 4. (Original) One or more copolymers according to Claim 1, wherein the copolymers comprise one or more of an amide derivative, an ester derivative, an imide derivative and a metal salt derivative.

Claim 5. (Original) One or more copolymers of Claim 1 having an average degree of polymerization of about 1.1 to about 20.

Claim 6. (Currently Amended) One or more copolymers, liquid at ambient temperature, prepared by the polymerization of

- a. one or more unsaturated acidic reagents and
- b. one or more polyisobutenes having ~~less than~~ about 5 to about 32
25 carbon atoms,
- c. in the presence of one or more free radical initiators.

Claim 7. (Original) One or more copolymers of Claim 6 wherein the unsaturated acidic reagent comprises maleic anhydride.

Claim 8. (Original) One or more copolymers of Claim 6, wherein the polyisobutene comprises a mixture further comprising:

- a. about 5 wt. % to about 20 wt. % C_8H_{16} ,
- b. about 35 wt. % to about 55 wt. % $C_{12}H_{24}$,
- c. about 20 wt. % to about 30 wt. % $C_{16}H_{32}$,
- d. about 8 wt. % to about 15 wt. % $C_{20}H_{40}$,
- e. about 2 wt % to about 8 wt % $C_{24}H_{48}$, and
- f. about 0.5 wt % to about 2 wt. % $C_{28}H_{56}$.

Claim 9. (Currently Amended) One or more copolymers of Claim 6 having a number average molecular weight (M_n) of about 231 to about 10,920.

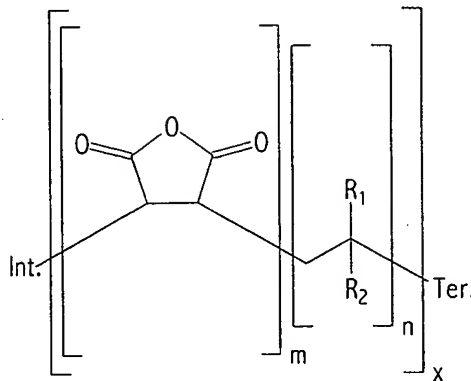
Claim 10. (Original) One or more copolymers of Claim 6 prepared from one or more polyisobutenes comprising a mixture having a number average molecular weight (M_n) of about 150 to about 240.

Claim 11. (Currently Amended) A method for making the copolymer of Claim 1 comprising reacting one or more unsaturated acidic reagents with one or more polyisobutenes having ~~less than~~ about 5 to about ~~32~~ 25 carbon atoms in the presence of one or more free radical initiators.

Claim 12. (Original) A method of Claim 11, wherein the unsaturated acidic reagent comprises maleic anhydride.

Claim 13. (Currently Amended) A method for making one or more copolymers of Claim 1 comprising a first step of reacting a first amount of one or more unsaturated acidic reagents with a first amount of one or more polyisobutenes having ~~less than~~ about 5 to about ~~32~~ 25 carbon atoms in the presence of a first amount of one or more free radical initiators to form a first liquid copolymer and a second step of reacting a portion of the first liquid copolymer with a second amount of unsaturated acidic reagent, a second amount of polyisobutene having less than about 32 carbon atoms in the presence of a second amount of free radical initiator.

Claim 14. (Currently Amended) One or more copolymers having the general formula:



wherein:

the copolymers are liquid at ambient temperature;

n comprises a whole integer from 1 to 3;

~~R₁ comprises methyl;~~

~~R₂ comprises one or more polyisobutylys having less than 32 carbon atoms~~

one of R₁ and R₂ comprises methyl and the other of R₁ and R₂ comprises polyisobutyl having about 5 to about 25 carbon atoms;

m comprises a whole integer of from 1 to 3;

x comprises a whole integer of from 1 to 20;

Int. comprises one or more initiating radicals; and

Ter. comprises one or more terminating groups.

Claims 15-16 (Cancelled)

Claim 17. (Original) A method for making one or more copolymers of Claim 14 comprising reacting maleic anhydride with polyisobutene having less than about 28 carbon atoms in the presence of free radical initiator.

Claim 18. (Original) One or more copolymers of Claim 14 having an average degree of polymerization of about 1.1 to about 20.

Claim 19. (Original) One or more copolymers of Claim 14 having an average degree of polymerization of about 1.5 to about 10.

Claim 20. (Currently Amended) A method for making the copolymers of Claim 14 comprising reacting maleic anhydride with one or more polyisobutenes having ~~less than~~ about 5 to about ~~32~~ 25 carbon atoms in the presence of one or more free radical initiators.

Claim 21. (Currently Amended) The method of Claim ~~19~~ 20 wherein the polyisobutene comprises:

- a. about 5 wt. % to about 20 wt. % C_8H_{16} ,
- b. about 35 wt. % to about 55 wt. % $C_{12}H_{24}$,
- c. about 20 wt. % to about 30 wt. % $C_{16}H_{32}$,
- d. about 8 wt. % to about 15 wt. % $C_{20}H_{40}$,
- e. about 2 wt % to about 8 wt % $C_{24}H_{48}$, and
- f. about 0.5 wt % to about 2 wt. % $C_{28}H_{56}$.

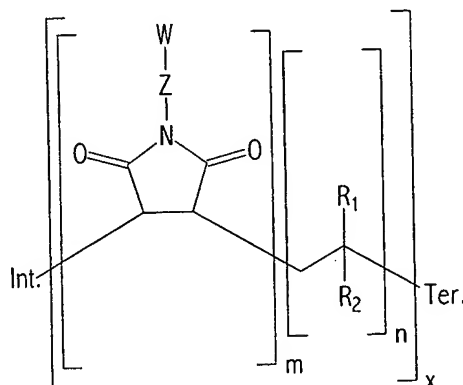
Claim 22. (Currently Amended) One or more copolymers of Claim 14 having a number average molecular weight (M_n) of about 231 to about 10,920.

Claim 23. (Original) A method of Claim 20, wherein the polyisobutene has a number average molecular weight (M_n) of about 150 to about 240.

Claim 24. (Currently Amended) A method for making one or more copolymer comprising reacting polyisobutene having ~~less than~~ about 5 to about ~~32~~ 25 carbon atoms with maleic anhydride in the presence of one or more free radical initiators and one or more copolymers of Claim 14.

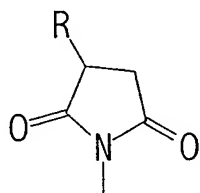
Claim 25. (Currently Amended) A method for making one or more copolymers of Claim 14 comprising a first step of reacting a first amount of maleic anhydride with a first amount of one or more polyisobutenes having ~~less than~~ about 5 to about 32 25 carbon atoms in the presence of a first amount of one or more free radical initiators to form a first liquid copolymer and a second step of reacting a portion of the first liquid copolymer with a second amount of maleic anhydride and a second amount of one or more polyisobutenes having ~~less than~~ about 5 to about 32 25 carbon atoms in the presence of a second amount of one or more free radical initiators.

Claim 26. (Amended) One or more polymers having the general formula of:

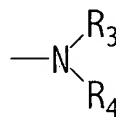


wherein:

W comprises one or more of:



and



wherein:

R comprises at least one of one or more polyalkyls and one or more polyalkenes, wherein the polyalkyls and polyalkenes each have a molecular weight of at least 1000;

~~R₁ comprises methyl;~~

~~R₂ comprises polyisobutyl having less than 32 carbon atoms~~ one of R₁ and R₂ comprises methyl and the other of R₁ and R₂ comprises polyisobutyl having about 5 to about 25 carbon atoms;

Z comprises a polyamine linking radical

m comprises a whole integer of from 1 to 3;

n comprises a whole integer of from 1 to 3;

x comprises a whole integer of from 1 to 20;

Int. comprises one or more initiating radicals;

Ter. comprises one or more terminating groups; and

wherein R₃ and R₄ are independently hydrogen, alkyl, phenyl, or taken together are alkylene to give a ring group.

Claim 27. (Original) A lubricating oil composition comprising a major amount of an oil of lubricating viscosity and a minor amount of one or more of the polymers of Claim 26.

Claim 28. (Original) A lubricating oil concentrate comprising from about 10 wt.% to about 90 wt.% of the polymer of Claim 26 and from about 90 wt.% to about 10 wt.% of an oil of lubricating viscosity.

Claim 29. (Original) A fuel concentrate comprising a major amount of an inert stable oleophilic organic solvent boiling in the range of about 150 degrees F. to about 400 degrees F. and a minor amount of the polymer of Claim 26.

Claim 30. (Original) One or more post-treated dispersants prepared by treating one or more polymers of Claim 26 with one or more cyclic carbonate or one or more linear mono- or poly-carbonate under reactive conditions.

Claim 31. (Original) The post-treated dispersants of Claim 30 wherein said cyclic carbonate is ethylene carbonate.

Claim 32. (Original) A lubricating oil composition comprising a major amount of an oil of lubricating viscosity and a minor amount of the dispersant of Claim 30.

Claim 33. (Original) A lubricating oil concentrate comprising from about 10 wt.% to about 90 wt.% of the post-treated dispersant of Claim 30 and from about 90 wt.% to about 10 wt.% of an oil of lubricating viscosity.

Claim 34. (Original) One or more post-treated dispersants prepared by treating the polymers of Claim 26 under reactive conditions with one or more of boron oxide, boron halide, boric acid, and esters of boric acid.

Claim 35. (Original) A process for preparing one or more succinimides that comprises reacting a mixture under reactive conditions, wherein the mixture comprises:

- a. one or more of at least one alkenyl acid derivative and at least one alkylsuccinic acid derivative,
- b. one or more copolymers prepared by the process of Claim 11 and
- c. one or more polyamines.

Claim 36. (Original) A process for preparing one or more succinimides of Claim 35, wherein the acid derivative has a succination ratio of from about 1.1 to about 1.4.

Claim 37. (Currently Amended) One or more succinimides prepared by reacting a mixture under reactive conditions wherein the mixture comprises:

- a. one or more of an alkenyl acid derivative and an alkylsuccinic acid derivative,
- b. one or more copolymers of
 - (1) one or more unsaturated acidic reagents and
 - (2) one or more polyisobutenes having ~~less than~~ about 5 to about 32 25 carbon atoms, and
- c. one or more polyamine.

Claim 38. (Original) One or more succinimides of Claim 37, wherein the acid derivatives have a succination ratio of about from about 1.1 to about 1.4.

Claim 39. (Original) One or more succinimides of Claim 37, wherein the unsaturated acidic reagent comprises maleic anhydride.

Claim 40. (Original) A lubricating oil composition comprising a major amount of an oil of lubricating viscosity and a minor amount of the succinimide of Claim 37.

Claim 41. (Original) A lubricating oil concentrate comprising from about 10 wt.% to about 90 wt.% of the succinimide of Claim 37 and from about 90 wt.% to about 10 wt.% of an oil of lubricating viscosity.

Claim 42. (Original) A fuel concentrate comprising a major amount of an inert stable oleophilic organic solvent boiling in the range of about 150 degrees F. to about 400 degrees F. and a minor amount of the succinimide of Claim 37.

Claim 43. (Original) One or more post-treated succinimides prepared by treating one or more succinimides of Claim 37 under reactive conditions with one or more of linear mono- carbonate and poly-carbonate.

Claim 44. (Original) The post-treated succinimide of Claim 43, wherein the carbonate comprises ethylene carbonate.

Claim 45. (Original) A lubricating oil comprising a major amount of an oil of lubricating viscosity and a minor amount of the post-treated succinimide of Claim 43.

Claim 46. (Original) A lubricating oil concentrate comprising from about 10 wt.% to about 90 wt.% of the post-treated succinimide of Claim 43 and from about 90 wt.% to about 10 wt.% of an oil of lubricating viscosity.

Claim 47. (Original) A fuel concentrate comprising a major amount of an inert stable oleophilic organic solvent boiling in the range of about 150 degrees F. to about 400 degrees F. and a minor amount of the post-treated succinimide of Claim 43.

Claim 48. (Original) One or more post-treated succinimides prepared by treating the succinimides of Claim 37 under reactive conditions with one or more of boron oxide, boron halide, boric acid, and esters of boric acid.

Claim 49. (Original) A lubricating oil comprising a major amount of an oil of lubricating viscosity and a minor amount of the post-treated succinimide of Claim 48.

Claim 50. (Original) A fuel concentrate comprising a major amount of an inert stable oleophilic organic solvent boiling in the range of about 150 degrees F. to about 400 degrees F. and a minor amount of the post-treated succinimide of Claim 48.